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Georgia Southern University Research Symposium

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# RESEARCH<sup>2015</sup> SYMPOSIUM

GEORGIA SOUTHERN UNIVERSITY

FRIDAY, APRIL 24, 2015  
NESSMITH-LANE CONFERENCE CENTER



10% Recycled Paper

# SCHEDULE OF EVENTS

**\*COMPLETE SCHEDULE BEGINS ON PAGE 5**

**8:00 - 8:45 AM**  
**REGISTRATION, POSTER SETUP & CONTINENTAL BREAKFAST**  
 Nessmith-Lane Atrium & Ballroom

**9:00 - 9:30 AM**  
**OPENING REMARKS**  
 Nessmith-Lane Ballroom

**9:30 - 10:30 AM**  
**SESSION 1**  
 Molecular Biology Initiative (MBI) (Closed Session) 2911  
 Public Health & Well Being 2901  
 Business & Logistics 2905 B  
 Engineering & Information Technology 2903  
 Qualitative Research 2905 A  
 Humanities & Social Sciences 2908  
 Natural & Physical Sciences 1909  
 Natural & Physical Sciences 2904 B

**10:30 - 10:45 AM**  
**BREAK**

**10:45 AM - NOON**  
**MORNING POSTER PRESENTATION**  
 Engineering & Information Technology  
 Humanities & Social Sciences  
 Business & Logistics  
 Exercise Science & Human Performance

**NOON - 1:30 PM**  
**LUNCH, FACULTY EXCELLENCE AWARD SPEAKERS & PRESENTATION OF AVERITT AWARDS**  
 Nessmith-Lane Ballroom

**1:30 - 2:30 PM**  
**SESSION 2**  
 Molecular Biology Initiative (MBI) 2911  
 Natural & Physical Sciences 1909  
 Natural & Physical Sciences 2904 B  
 Engineering & Information Technology 2903  
 Public Health & Well Being 2901  
 Material Sciences 2905 B  
 Humanities & Social Sciences 2904 A  
 Humanities & Social Sciences 2908  
 Education & Learning 2905 A

**2:30 - 2:45 PM**  
**BREAK**

**2:45 - 4:00 PM**  
**AFTERNOON POSTER PRESENTATION**  
 Natural & Physical Sciences  
 Molecular Biology Initiative (MBI)  
 Education & Learning  
 Qualitative Research  
 Public Health & Well Being

**4:00 - 5:00 PM**  
**SESSION 3**  
 Molecular Biology Initiative (MBI) 2911  
 Engineering & Information Technology 2901  
 Engineering & Information Technology 2903  
 Natural & Physical Sciences 1909  
 Natural & Physical Sciences 2904 B  
 Humanities & Social Sciences 2908  
 Qualitative Research 2904 A  
 Education & Learning 2905 A  
 Education & Learning 2905 B

**5:00 - 5:30 PM**  
**RECEPTION & SYMPOSIUM AWARDS**  
 Nessmith-Lane Ballroom

RESEARCH TOPICS		
 Engineering & Information Technology	 Education & Learning	 Humanities & Social Sciences
 Business & Logistics	 Qualitative Research	 Material Sciences
 Exercise Science & Human Performance	 Natural Science & Physical Sciences	
 Public Health & Wellness	 Molecular Biology Initiative	

# FACULTY AWARD FOR EXCELLENCE

The Award for Excellence in Research/Creative Scholarly Activity seeks to recognize faculty who excel in their research efforts in addition to fulfilling regular full-time teaching responsibilities.



**Valentin Soloiu, Ph.D.**, a professor in the Department of Mechanical Engineering. Dr. Soloiu’s innovative “Low Temperature Combustion of Stratified Biofuel Mixtures in Reactivity Controlled Compression Ignition” responds to these challenges by simultaneously suppressing the formation of NO<sub>x</sub> and soot and reducing our dependence on petroleum-based fuels. This technology positively affects the environment and the lives of the communities.



**Hua Wang, Ph.D.**, a professor in the Department of Mathematical Sciences. Dr. Hua Wang’s research is to apply abstract mathematical ideas beyond computations to practical problems requires understanding of both. His work involves the development and application of theoretical mathematical methods motivated by topics in many other fields.

# THE AVERITT AWARD



The Averitt Award is the highest honor bestowed upon graduate students within the Jack N. Averitt College of Graduate Studies. Through nominations from each department’s graduate program faculty, two semi-finalists are chosen by the Graduate Program’s Director/Coordinator, one student from each category: Excellence in Research and Excellence in Instruction. Of these semi-finalists, two students are chosen and each are bestowed a \$1,000 cash prize and a Crystal Eagle trophy. The 2015 Averitt Award Winners will be announced during the Research Symposium Luncheon at 12:00 - 1:30 PM in the Nessmith-Lane Ballroom.

### Previous Winners


2014	Cameron Cato	MSAE - Mech. Engineering	Excellence in Research
2014	Aaron Roberts	MA English	Excellence in Instruction
2013	Lauren Deaner	MS Biology	Excellence in Research
2013	Amit Arora	PhD Logistics	Excellence in Instruction
2012	Carl Nicholas “Nick” Keiser	MS Biology	Excellence in Research
2012	Johnathan Craig Martin	PsyD Psychology	Excellence in Instruction
2011	Tomas Condon	MS Biology	Excellence in Research
2011	Drew Keane	MA English	Excellence in Instruction


8:00 - 8:45 AM	REGISTRATION, POSTER SETUP & CONTINENTAL BREAKFAST	NESSMITH-LANE ATRIUM & BALLROOM
9:00 - 9:30 AM	OPENING REMARKS	NESSMITH-LANE BALLROOM


# SESSION 1


## CONCURRENT SESSIONS 9:30 -10:30 AM


### MOLECULAR BIOLOGY INITIATIVE (MBI) - ROOM 2911 (CLOSED SESSION)


<b>ROOM 2901</b> 	<b>PUBLIC HEALTH &amp; WELL BEING - ROOM 2901</b>	
	Static and Dynamic Assessments of Postural Control Post-Concussion: Logistic Regression Models	Nathan D'Amico Georgia Southern University
	Evaluation of the Wastewater Treatment Efficiency in Removal of Microbial Contaminants	Blessing Odion Georgia Southern University
	The Association Between Arthritis and Depression Intensified by Excessive Body Weight	Maria D. Politis Georgia Southern University


<b>ROOM 2905 B</b> 	<b>BUSINESS &amp; LOGISTICS - ROOM 2905 B</b>	
	The Effects of Bullwhip on Item Level Performance	Cesar Ayala Georgia Southern University
	Performance Outcomes of Volume Flexibility and Inventory Strategies: The Contingent Role of Environmental Uncertainty	Willis Mwangola Georgia Southern University
	Does Supply Chain Information Technology Improve Firm Performance? A Meta-Analytic Evaluation	Akhadian Harnowo Georgia Southern University

<b>ROOM 2903</b> 	<b>ENGINEERING &amp; INFORMATION TECHNOLOGY - ROOM 2903</b>	
	Jet-A Combustion in an Indirect Injection Compression Engine vs. a Direct Injection Compression Engine at Same Load and Speed	Tyler Naes Georgia Southern University
	Aircraft Turbine Engine Sound and Vibrations Reduction for Increased Cabin Comfort	Emerald Simons Georgia Southern University
	Reactivity Controlled Compression Ignition Investigations with Direct Injection of Synthetic Kerosene and Port Fuel Injection of n-Butanol	Martin Muinos Georgia Southern University

<b>ROOM 2905 A</b> 	<b>QUALITATIVE RESEARCH - ROOM 2905 A</b>	
	The Impact of Mentoring	Santanu Majumdar Georgia Southern University
	"There's Disgust, but There's not Anger": Executive Leadership During Times of Transition	Jenny Brown Kennesaw State University
	The Triage Experience	Dr. Susan Sanders Georgia Southern University

<b>ROOM 2908</b> 	<b>HUMANITIES &amp; SOCIAL SCIENCES - ROOM 2908</b>	
	Impresas and Impositions: Female Marginalization through the Impresa in Petrarch, Wyatt, and Sidney	Anna Wells Georgia Southern University
	“There Was That in Her Face and Form Which Made Him Loathe The Sight of Her”: Disfiguration of Female Characters in Female Literature	Kelsi Cunningham Georgia Southern University


<b>ROOM 1909</b> 	<b>NATURAL &amp; PHYSICAL SCIENCES - ROOM 1909</b>	
	Packing Densities of Colored and Non-colored Patterns	Matthew R. Just Georgia Southern University
	Graph Ramsey Theory	Jonathan Gregory Georgia Southern University
	Improved Full-Newton-Step Interior-point Methods for LO and LCP	Mustafa Ozen Georgia Southern University

<b>ROOM 2904 B</b> 	<b>NATURAL &amp; PHYSICAL SCIENCES - ROOM 2904 B</b>	
	Microgel Core/Shell Architectures for Targeted Delivery of Thrombolytic Agents	Purva Kodlekere Georgia Institute of Technology
	Investigating Computational, Structural, Physiochemical and Biological Properties of a Family of Pyridoxine-Lanthanide Metal Complexes	Dr. Arpita Saha Georgia Southern University
	Amphiphilic Diketopyrrolopyrrole Small Molecules with Enhanced Intermolecular Ordering for Organic Electronics	Chi Kin Lo Georgia Institute of Technology

<b>10:30 - 10:45 AM</b>	<b>BREAK</b>
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# MORNING POSTER PRESENTATION

## NESSMITH-LANE ATRIUM 10:45 AM - NOON

	<b>ENGINEERING &amp; INFORMATION TECHNOLOGY</b>		
	1	Accuracy Analysis of Close-Range Photogrammetry in Civil Engineering Projects	Christopher Bachmann Georgia Southern University
	2	Accelerated Bridge Construction (ABC) for Georgia City and County Roads, Part III: Construction and Cost Estimates	Andrew Hartley Georgia Southern University
	3	Development of Test Methods for Two USEPA Regulated Disinfection By-Products (DBPs): Trihalomethanes (THMs) and Haloacetic Acids (HAAs) in Tap Water Using New Gas Chromatography/Mass Spectrometry (GC/MS) with Purge and Trap System	Parker Moore Georgia Southern University
	4	Accelerated Bridge Construction (ABC) for Georgia City and County Roads Part I: Overview and Survey Results	Mike Ofili Georgia Southern University
	5	Accelerated Bridge Construction (ABC) for Georgia City and County Roads, Part II: Design Concept and Examples using MathCAD	Cody Rogers Georgia Southern University



6	Optimum Design and Fabrication of a Scaled Steel Bridge for the 2015 ASCE Student Steel Bridge Competition	Nathaniel Tanner Georgia Southern University
7	Color Removal from Pulp Mill Effluent Using Coal Ash Produced from Georgia Coal Combustion Power Plants	Christopher Willett Georgia Southern University
8	Performance Analysis of Spectrum Sensing in Cognitive Vehicular Network for Mobile Secondary Users	Tanjil Amin Georgia Southern University
9	Ultra-Fast, Autonomous, Reconfigurable UAV Communication System	Paul Bupe Georgia Southern University
10	A Passive UHF RFID Tag Antenna for Road Marker Navigation Application	Jinxi Chen Georgia Southern University
11	Design of 3-Dimensional Wireless Vehicular Ad Hoc Networks for Civil and Military Applications	Isaac Cushman Georgia Southern University
12	EMG Based Classification of Hand Motions for Use in Robotics and Prosthetics	Stephen Hickman Georgia Southern University
13	Dynamic Spectrum Access for Smart Communication Networks	Sterling Holcomb Georgia Southern University
14	Design of High Speed Computer Networks Aimed at Reducing Energy Consumption and Carbon Emission	Christianna Howard Georgia Southern University
15	Non-Invasive Prosthetic Hand Model	Arash Mirzakhani Georgia Southern University
16	Robotic Arm for Mimicking Human Arm Movements	Joshua Stroud Georgia Southern University
17	Design and Implementation of an Interactive Animatronic System for Guest Response Analysis	Brian Burns Georgia Southern University
18	Investigations of Synthetic Fuels: S8 and Sasol IPK to Determine the Possibility of Fuels in the Aerospace Industry	Scott Dyke Georgia Southern University
19	Smart Controls Strategy for Common Rail Systems to Achieve Super Low NOx and Soot in Multifuel Engines	Remi Gaubert Georgia Southern University
20	Green Recycling - Fabrication Nano-engineered Advanced Aluminum Alloy with Aluminum Machining Chips Using Friction Stir Extrusion Processing	Tyler Hedges Georgia Southern University
21	Thermal Performance of Fractal Fins in a Vacuum Environment	Philip Hines Georgia Southern University
22	Synthesis of Sustainable Organic Aerogel with a Product of Wood Waste - Cellulose	Jacob Huckaby Georgia Southern University
23	Optimization Methodology of Fuel Injection Timing for Reactivity Controlled Compression Ignition Multi-Fuel Engine	Shichao Huo Georgia Southern University
24	Electrospinning of Polycaprolactone Core-shell Nanofibers with Anti-Cancer Drug	Sakib Iqbal Georgia Southern University
25	Thermal Performance of Fractal Fins in a Natural Convection Environment	Gyunay Keten Georgia Southern University
26	Brassica Carinata Oilseed Biodiesel Analysis for Application in Compression - Ignition Engines	Jose Moncada Georgia Southern University
27	Variable Stratification of Reactivity in Fuel Combustion with Newly Developed Biofuel	Tyler Naes Georgia Southern University
28	Enabling Heterogeneous Robot and Control System Communication Through Network Integration	Christopher Reid Georgia Southern University
29	Thermal and Physiochemical Investigations of Brassica Carinata Biodiesel by Optimized Transesterification	Kevin Steverson Georgia Southern University
30	Polyacrylonitrile Nanofibers Functionalized with Metal Organic Framework Particles to Adsorb Carbon Dioxide Gas from Emission Systems	Wahiduzzaman Wahiduzzaman Georgia Southern University



**HUMANITIES & SOCIAL SCIENCES**

31	The Three Faces of Iraq	Megan Bright Georgia Southern University
32	La Bestia: Unaccompanied Migrant Children and the Train of Death	Bernadette O'Donnell Georgia Southern University
33	"Digging for Victory": Nurturing New Ideas of Gender Roles Through Victory Gardens, 1914-1960	Allyce Smith Georgia Southern University
34	Self-Compassion Moderates the Relations Between Adversity and Emotional Outcomes	Lori Barfield Georgia Southern University
35	The Effects of Positive and Negative Feminist Primes and Sexism on Rape Myth Acceptance and Rape Proclivity	Courtney Beussink Georgia Southern University
36	The Benefits of Religious Fundamentalism	Natasha LaBalle Georgia Southern University
37	Religion and Interpersonal Trust: An Individual Differences Analysis	Kaitlyn Sawyer Georgia Southern University
38	The Impact of the "Sexually Abused" Label: Perceptions of Positive Traits in Children	Brittany Sutton Georgia Southern University
39	Perceptions of Children Experiencing Trauma: Internalizing, Externalizing, and Future Success	Kristen Campbell Georgia Southern University

**BUSINESS & LOGISTICS**

40	Logistics Performance Measurement: A Comparison of Literature and Practice	Thomas Hamilton Georgia Southern University
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**EXERCISE SCIENCE & HUMAN PERFORMANCE**


41	The Effects Of Head Impacts On Postural Control In Division I Football Athletes	Eric Shiflett Georgia Southern University
42	Utilization of B-mode Ultrasound as a Body Fat Estimate in Collegiate Football Players	Nicholas Coker Georgia Southern University
43	Changes in Power Output During Training Among Young People with Cerebral Palsy - A Pilot Study	Keagan Kiely Georgia Southern University
44	Using a MG-M Imagery Intervention to Enhance the Sport Competence of Young Special Olympics Athletes	Kelley Catenacci Georgia Southern University

<b>NOON - 1:30 PM</b>	<b>LUNCH, FACULTY EXCELLENCE AWARD SPEAKERS &amp; PRESENTATION OF AVERITT AWARDS</b>	<b>NESSMITH-LANE BALLROOM</b>
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# SESSION 2


## CONCURRENT SESSIONS 1:30 - 2:30 PM

ROOM 2911	MOLECULAR BIOLOGY INITIATIVE (MBI) - ROOM 2911	
	Cellular and Molecular Responses in Striped Bass ( <i>Morone saxatilis</i> ) and Nile Tilapia ( <i>Oreochromis niloticus</i> ) Cardiomyocytes in Response to Hypoxia	Amanda Reynolds Georgia Southern University
	Zebrafish, Investigatory Model for Stroke: The Roles of itga6 in Hindbrain Blood Vessel Development	Louise Zehr Georgia Southern University
	Myosin 10 and Neurodevelopment	Crystal Ivey Georgia Southern University
	The Role of MyoX in Craniofacial Development in Zebrafish	Cole Yancey Georgia Southern University
	Canopy Structural Alterations to Nitrogen Functions of the Soil Microbial Community in a <i>Quercus virginiana</i> Forest	Dean Moore Georgia Southern University
	Larval Retention of Pelagic Larvae in the Georgia Bight: A test with <i>Megabalanus coccopoma</i>	Alicia Reigel Georgia Southern University


ROOM 1909	NATURAL & PHYSICAL SCIENCES - ROOM 1909	
	Graphs of Classroom Networks	Rebecca Holliday Georgia Southern University
	An Exact Expression for the Behrens-Fisher Distribution with Applications	Dr. Charles Champ Georgia Southern University
	Leech-Type Questions of Trees	Demet Yalman Georgia Southern University


ROOM 2904 B	NATURAL & PHYSICAL SCIENCES - ROOM 2904 B	
	Deconstruction of Excitations in Atomtronic Systems Using Phase Reference	Brennan Coheleach Georgia Southern University
	Rovibronic Transitions of the Ethynyl Radical and Acetylide Anion: Quartic Force Field Methods for Spectroscopic Reference Data	Whitney Morgan Georgia Southern University
	Increased Conversion of Gold Salt into Gold Nanorods Having Various Aspect Ratios	Stephanie Canonico-May Georgia Southern University

ROOM 2903	ENGINEERING & INFORMATION TECHNOLOGY - ROOM 2903	
	Analyzing Electrical Impedance Myography Parameters to Identify the Least Affected parameter with Alteration in Subcutaneous Fat Thickness	Somen Baidya Georgia Southern University
	Conventional Rectangular Electrodes vs Circular Electrodes for Electrical Impedance Myography (EIM) Measurement	Khondokar Mohammad Fazle Rabbi Georgia Southern University
	Verification of Size Reduced Circularly Polarized Log-Periodic Dipole Array (CPLPDA)	Joshua Haney Georgia Southern University

<b>ROOM 2901</b> 	<b>PUBLIC HEALTH &amp; WELL BEING - ROOM 2901</b>	
	A Systematic Review of Diarrheal Disease: Its Differential Burden Between Genders and the Role of Women in the Abatement of This Epidemic?	Varadan Sevilimedu Georgia Southern University
	A Qualitative Analysis of the Status, Benefits, and Barriers of Electronic Health Record Implementation in Local Health Departments	Karmen Williams Georgia Southern University
	Perchance to Dream: A Qualitative Study of Women Who have Experienced Visitations or Dreams of the Dead	Carol Ann Ham Valdosta State University

<b>ROOM 2904 A</b> 	<b>HUMANITIES &amp; SOCIAL SCIENCES - ROOM 2904 A</b>	
	Fleeting Objects: Visual Representations of Discarded Architecture	Elsie Hill Georgia Southern University
	The Significance of a Religious Pilgrimage in Ernest Hemingway's <i>The Sun Also Rises</i>	Sheila Nielsen Georgia Southern University
	The Material Gothic and Aesthetic Female in Jane Austen's <i>Northanger Abbey</i>	Esther Stuart University of North Georgia

<b>ROOM 2908</b> 	<b>HUMANITIES &amp; SOCIAL SCIENCES - ROOM 2908</b>	
	Bringing Polychoral Composition into the Virtual Era	Michael Payen Georgia Southern University
	Technostalgia and the Aesthetic of Glitch: Transcoding Audio into Video Using CRT Monitors	Matthew Bryant Georgia Southern University
	Reinventing Particle Synthesis	Aaron Anderson Georgia Southern University

<b>ROOM 2905 A</b> 	<b>EDUCATION &amp; LEARNING - ROOM 2905 A</b>	
	Evaluating a Flipped Classroom Model in an Undergraduate Research Class (Assisted by Dr. Diana Sturges & Robert Schlote)	Dr. Jody Langdon Georgia Southern University
	Civility on College Campuses	Amy Zieziula Georgia Southern University
	Leading Through Laughter: Humor and Perceived Effectiveness of P-12 Principals	Laurie Mascolo Georgia Southern University

<b>2:30 - 2:45 PM</b>	<b>BREAK</b>
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# AFTERNOON POSTER PRESENTATION

NESSMITH-LANE ATRIUM  
2:45 - 4:00 PM



## NATURAL & PHYSICAL SCIENCES

1	Physiological and Biochemical Consequences of Sleep Deprivation	Jade Boykin Georgia Southern University
2	Radio Frequency Identification Monitoring of Gopher Tortoises at Moody Air Force Base, GA	Brittany Mixon Valdosta State University
3	Dispersal of Feral Cats: Evidence from Genetics and GPS	Valerie Plummer Georgia Southern University
4	Trophic Basis of Production in Tropical Island Streams	Keysa Rosas-Rodriguez Georgia Southern University
5	RNA Secondary Structure and Signaling Events	Connor Bizon Georgia Southern University
6	Total Synthesis of Herbarin A and B and Determination of Antioxidant Properties and Toxicity in Zebra Fish Model	Julia Heimberger Georgia Southern University
7	Modified PNA Oligomers as a Method for Recognition of Mutant Non-coding RNA	Alexandro Ramirez Georgia Southern University
8	Multifunctional Copolymers for Hemoglobin Based Treatment of Severe Traumatic Brain Injuries	Helen Saenz Georgia Southern University
9	Effects of Flow Regime and Macroinvertebrates on Leaf Decomposition Rates in Three River Basins of the Southeastern Coastal Plain	Byron Collins Georgia Southern University
10	Microbial Source Tracking at a Tidal River Beach	Kendall Anderson Georgia Southern University
11	Quantification of Sewage Pollution Using Microbial Source Tracking Technique at an Urban Beach	Sara Benevente Georgia Southern University
12	Assessment of Fecal Indicator Bacteria in Sachet Water Collected from the Streets of Ghana	Christina Beslin Georgia Southern University
13	Molecular Markers of Pesticide Resistance and Pathogens in Head Lice	Helaina Capps Georgia Southern University
14	Effects of Biochar on Soil Water Retention, pH and Radish ( <i>Raphanus sativus</i> ) Plant Growth	Ryan Day Georgia Southern University
15	Evaluation of Quantitative PCR Assays for Detection and Identification of Amoeba	Dr. Marina E. Ereemeeva Georgia Southern University
16	Microbial Quality of Oysters and Oyster Growing Waters in Chatham County	Samantha McNeal Georgia Southern University
17	Comparison of Fecal Indicator Bacteria and Beach Water Quality Exceedences in a Tidal River Beach in Georgia	Asheley Poole Georgia Southern University
18	High Capacity Lithium Ion Battery for Self-powered and Sustainable Street Light Unit on GSU Campus	Dr. Ji Wu Georgia Southern University
19	Bayesian Inference of the Weibull-Pareto Distribution	James Dow Georgia Southern University
20	Bayesian L1 Lasso for High Dimensional Data	Viral Panchal Georgia Southern University
21	Microgravity Gradiometry Measurement Schemes with Multiple-pathway Atom Interferometers	Elizabeth Ashwood Georgia Southern University

**MOLECULAR BIOLOGY INITIATIVE (MBI)**

22	A Push for an Inquiry Based Approach to Scientific Learning in the High School Classroom	Crystal Ivey Georgia Southern University
23	Myosin 10 is Necessary for Axon Growth and Guidance in Zebrafish Embryos	Crystal Ivey Georgia Southern University
24	Genetic Structure of the Black Legged Tick, <i>Ixodes scapularis</i>	John Ludwig Georgia Southern University
25	Biology Module: Animal Dissection	John Ludwig Georgia Southern University
26	Inquiry Driven Learning for High School Environmental Science	Dean Moore Georgia Southern University
27	Canopy Structural Alterations to Nitrogen Functions of the Soil Microbial Community in a <i>Quercus virginiana</i> Forest	Dean Moore Georgia Southern University
28	Biodiversity: A Teaching Module for a High School Environmental Science Classroom	Alicia Reigel Georgia Southern University
29	Demographic Data and Genetic Diversity of the Introduced Barnacle, <i>Megabalanus coccopoma</i> , in the Southeastern U.S.	Alicia Reigel Georgia Southern University
30	Cell Birth and Death: A Teaching Unit for 10th Grade Biology	Amanda Reynolds Georgia Southern University
31	Behavioral Responses Exhibited by Striped Bass ( <i>Morone saxatilis</i> ) and Nile Tilapia ( <i>Oreochromis niloticus</i> ) in Response to Hypoxia	Amanda Reynolds Georgia Southern University
32	Fossil Fuels and Alternative Energy Sources	Cole Yancey Georgia Southern University
33	Craniofacial Development Disrupted in MyoX Mutant and Morphant Zebrafish	Cole Yancey Georgia Southern University
34	Developmental Genetics in High School Biology	Louise Zehr Georgia Southern University
35	Roles of Integrin Alpha 6 in the Development of the Hindbrain Blood Vessels in Zebrafish	Louise Zehr Georgia Southern University

**EDUCATION & LEARNING**

36	The Impact of Classroom Performance System Technology Upon Student Motivation and Achievement in 11th Grade Advanced Algebra Classrooms	Michael Kiemhung Nguyen-Quan Georgia Southern University
37	Motivation Studies Utilizing Self Determination Theory in Chemistry and Allied Health Classes	Keenya Riggins Georgia Southern University
38	Interactive Teaching Tools Utilized in Organic Chemistry	Ki-Jana White Georgia Southern University
39	Let's Play with a Full Deck, Not Just the Race Card: Self-Imposed and External Barriers Limiting Black Women Administrators in Higher Education	Marian Muldrow Georgia Southern University
40	Benefits of Yoga in Schools	Julia Popowski Georgia Southern University



## QUALITATIVE RESEARCH

41	Behind China's English Fever: The Contested Discourses on English Education and People's Yearning for Flexible Citizenship	Yiming Jin Georgia Southern University
42	The Experience of Physical Therapy Burnout (PTB) - A Qualitative Investigation	Jessica Lovins Georgia Southern University
43	The Triage Experience	Susan Sanders Georgia Southern University
44	Assessment of Cultural Competence Using Qualitative and Quantitative Methods	Dr. Bonnie Simmons Georgia Southwestern State University





## PUBLIC HEALTH & WELL BEING


45	The Use of miRNAs as Chemosensitizing Agents	Chad Burleson Georgia Southern University
46	A Qualitative Study of Co-Occurring Alcohol Abuse and Overweight Obesity	Dr. Moya Alfonso Georgia Southern University
47	Incidence of Hyponatremia in the Adult, Inpatient Setting: Towards an Improved Falls Risk Assessment Tool	Anne Bennett Georgia Southern University
48	Utilization of the Doctor of Nursing Practice Nurse Practitioner to Meet North Carolina Healthcare Needs	Kelli Miller Georgia Southern University
49	Salud es Vida: Community-based, Promotora-delivered Cervical Cancer Prevention Education for Latina Farmworker Women	Claudia Reyes-Garcia Georgia Southern University
50	Prevalence of Health Care Provider Counseling about Exercise and Its Uptake Among Cancer Survivors in the U.S.	Chen Chen Georgia Southern University
51	Knowledge About and Exposure to Tick-borne Diseases in Georgia, USA	Bionca M. Davis Georgia Southern University
52	Evaluation of Possible Risk Factors of Childhood Autism Spectrum Disorder	Chen Mo Georgia Southern University
53	Cholelithiasis Prevalence in Minority Women within the United States	Kirsten Oliver Georgia Southern University
54	Use of Facebook by Local Health Departments: Posts, Frequency, and Purposes	Rakhi Trivedi Georgia Southern University
55	Weight Misperception and School Absenteeism in Adolescents	John Twarog Georgia Southern University
56	Is the Modified Neuropathy Disability Score (NDS) Screening Tool a Useful Predictor of Foot Ulcer Risk in Adults with Diabetes?	Dr. Marian Tabi Georgia Southern University
57	Your Life With Type II Diabetes: The Relationship Between Overall Health With and Without Diabetes	Cory Brandt Georgia Southern University
58	Parental Feeding Behavior: Influences on Elementary Children's Health	Cyndi Martin Georgia Southern University
59	Improving Some Clinical Studies Inference by Using Ranked Axillary Covariate	Dr. Hani Samawi Georgia Southern University
60	Legal Powers Vested by State Legislatures to Local Boards of Health and Their Perception/Misperception	Ankit Bangar Georgia Southern University
61	Variations in Public Health Governance: A Typology of Local Boards of Health	Dr. Jeffery Jones Georgia Southern University
62	A Typology of U.S. Local Boards of Health	Dr. Jeffery Jones Georgia Southern University
63	The Association Between Arthritis and Depression Intensified by Excessive Body Weight	Maria D. Politis Georgia Southern University


# SESSION 3


## CONCURRENT SESSIONS 4:00 - 5:00 PM

<b>ROOM 2911</b> 	<b>MOLECULAR BIOLOGY INITIATIVE (MBI) - ROOM 2911</b>	
	Life Science Career Pathways Panel	Jim Wedincamp, Jr. East Georgia State College  Marina E. Eremeeva Georgia Southern University  Sherri M. Cannon Savannah Technical College  Brett Rabeneck ORISE Fellow, CDC


<b>ROOM 2901</b> 	<b>ENGINEERING &amp; INFORMATION TECHNOLOGY - ROOM 2901</b>	
	Validation of a Novel Wireless Electrocardiogram (ECG) Antenna Design  A Memory-access Efficient Parallel Algorithm for Spectrum-based Short Read Error Correction	Joseph Meador Georgia Southern University  Nagakishore Jammula Georgia Institute of Technology

<b>ROOM 2903</b> 	<b>ENGINEERING &amp; INFORMATION TECHNOLOGY - ROOM 2903</b>	
	Cloud-computing Based Real-time Dynamic Spectrum Access for Internet-of-Things: A Testbed	Nimish Sharma Georgia Southern University
	Voltage Ripple Content Analysis-based Passive Islanding Detection Technique for Distributed Generation Systems	Bikiran Guha Georgia Southern University
Energy Modeling of Differential Drive Robots	Mudasser Wahab Georgia Southern University	


<b>ROOM 1909</b> 	<b>NATURAL &amp; PHYSICAL SCIENCES - ROOM 1909</b>	
	Attachment of Dissymmetric, Bidentate N-heterocyclic Carbene (NHC) Ligands for the Formation of Stereo-selective Olefin Metathesis Catalysts	Kayla Warren Georgia Southern University
	Gold Nanorods: From Synthesis to Application	Dr. John Stone Georgia Southern University
Examining the Effect of 2-Aminoanthracene Exposure in Sprague Dawley Dams from Gestation through the Postnatal Period	Shamaya Whitby Georgia Southern University	


<b>ROOM 2904 B</b> 	<b>NATURAL &amp; PHYSICAL SCIENCES - ROOM 2904 B</b>	
	Insects and Death: Forensic Entomology in Georgia  Detection, Quantitation, and Genomic Analysis of <i>Candidatus</i> <i>Riesia pediculicola</i>	Dr. Edward Mondor Georgia Southern University  Sarah E. Braswell Georgia Southern University



<b>ROOM 2908</b> 	<b>HUMANITIES &amp; SOCIAL SCIENCES - ROOM 2908</b>	
	The First Pontiff: Expansion of Papal Authority Under Damasus I (366-384)	Thomas McIntyre Georgia Southern University
	Using a Delayed Match-to-samples Task to Investigate the Isolated Processing of Geometric Shapes and Their Corresponding Shape Words	Joshua Edwards Georgia Southern University
	The Value of a College Education: First Generation College Students Perceptions	Shandice Gardiner Georgia Southern University

<b>ROOM 2904 A</b> 	<b>QUALITATIVE RESEARCH - ROOM 2904 A</b>	
	The Use of Smokeless Tobacco in Women Living in Rural Areas	Rose Mary Gee Georgia Southern University
	Voices of Serenity: Experiencing Serenity in Recovery from Drug/Alcohol Addiction in 12-step Programs	Alison Rushing Georgia Southern University

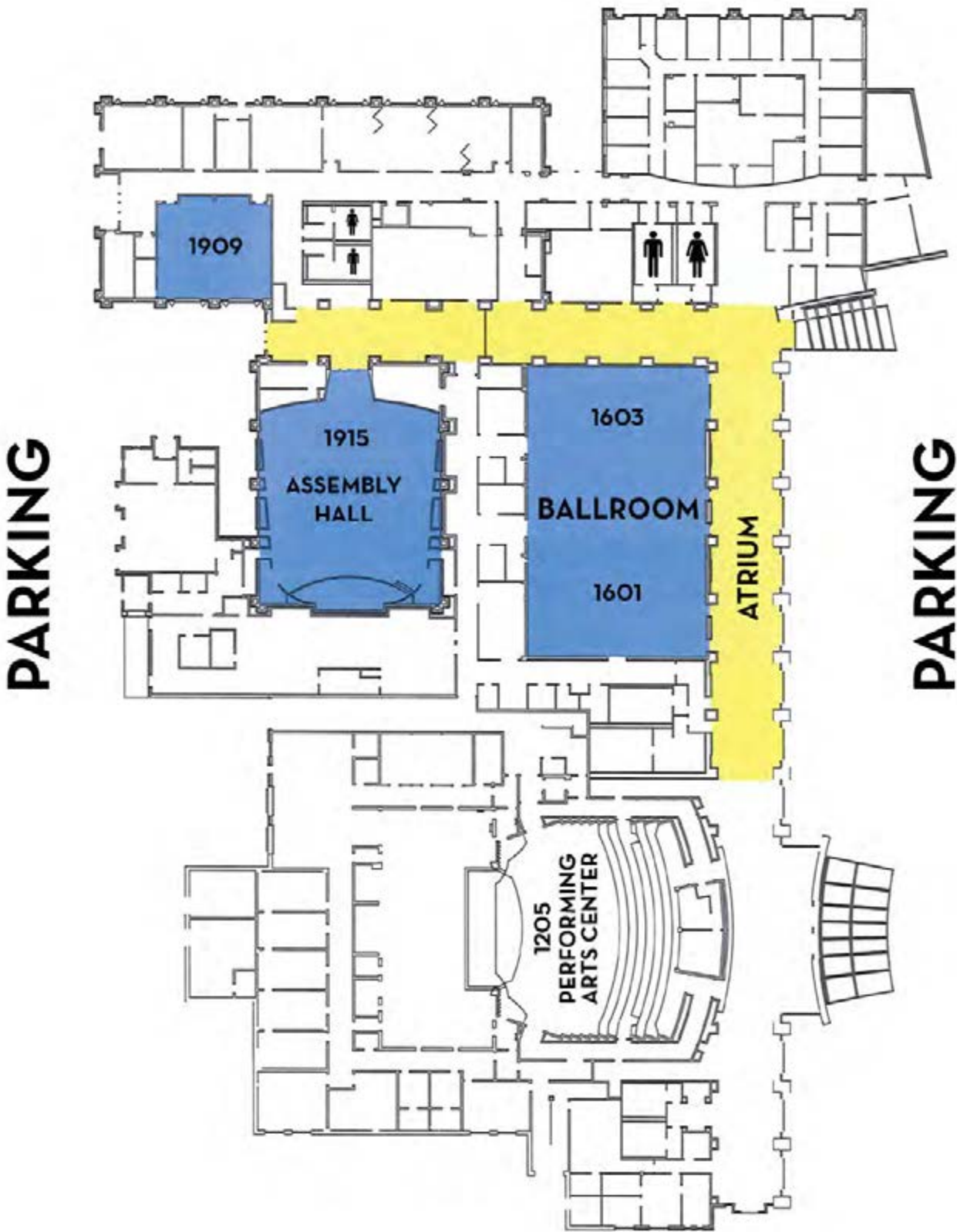
<b>ROOM 2905 A</b> 	<b>EDUCATION &amp; LEARNING - ROOM 2905 A</b>	
	Measuring Graduate Assistant Productivity (Assisted by Megan Anderson, Sally Gilbreth & Sierra Adams)	Dr. Meca Williams-Johnson Georgia Southern University
	Scholarly Information Discovery in Academic Learning Environments: A New Information Literacy Frame Work to Promote Critical Thinking Skills	LiLi Li Georgia Southern University
	Being an Ambassador for Mathematics and Science	Christopher Serkan University of North Georgia

<b>ROOM 2905 B</b> 	<b>EDUCATION &amp; LEARNING - ROOM 2905 B</b>	
	Influences on the Modern American Curriculum	Christy Howard Georgia Southern University
	Capturing Eternity - The Narratives of Tattoos: An Ethno-Drama	Diana Bishop Georgia Southern University
	Neoliberalism: Effects on Labor and Education in the U.S.	Jennifer Fitzner Georgia Southern University

<b>5:00 - 5:30 PM</b>	<b>RECEPTION &amp; SYMPOSIUM AWARDS</b>	<b>NESSMITH-LANE BALLROOM</b>
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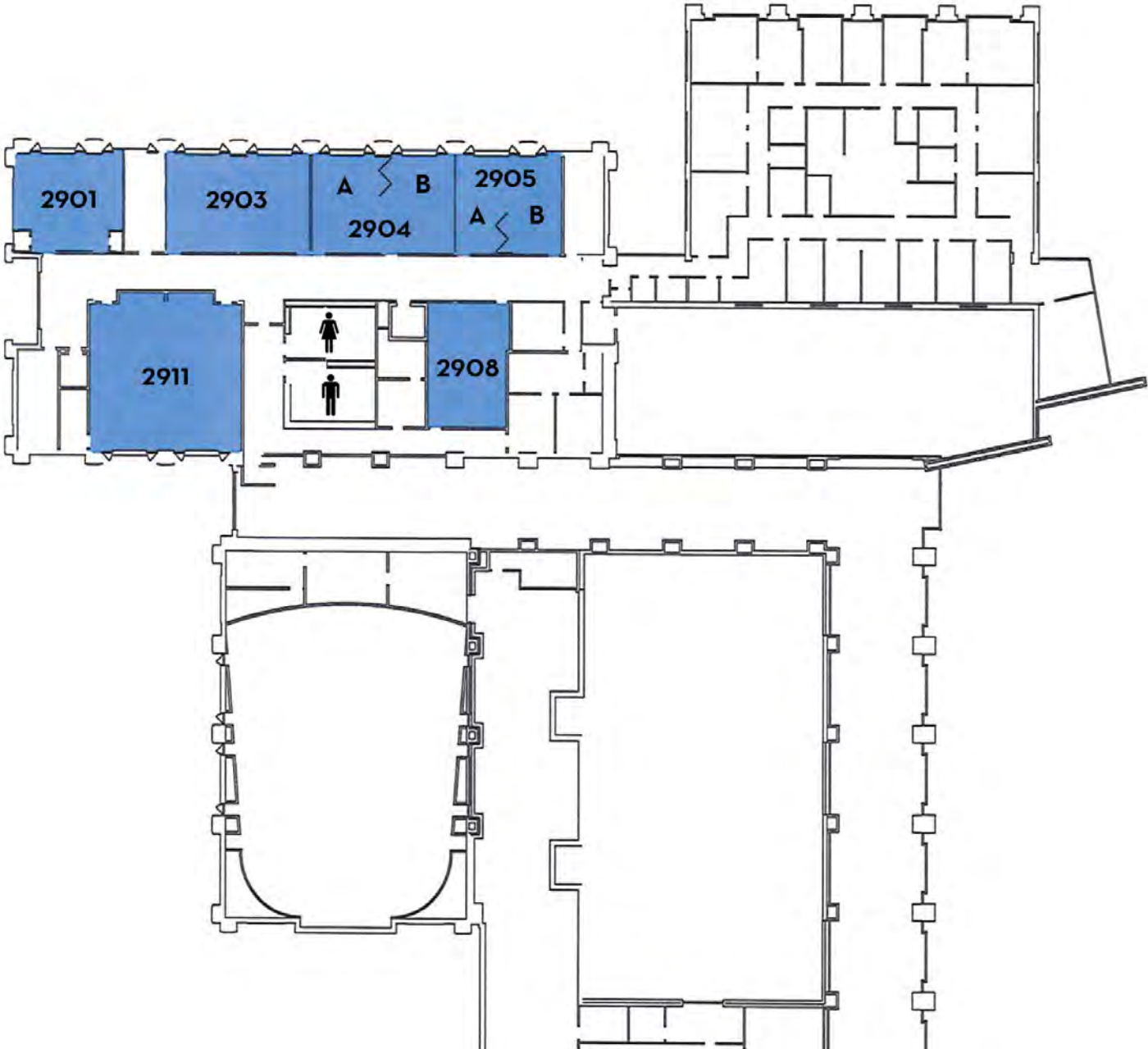
# NESSMITH-LANE CONFERENCE CENTER

## FIRST FLOOR



# NESSMITH-LANE CONFERENCE CENTER

## SECOND FLOOR









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